



TU1406

COST ACTION

QUALITY SPECIFICATIONS FOR ROADWAY BRIDGES,
STANDARDIZATION AT A EUROPEAN LEVEL



ESF provides the
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Winter School – Zell am See

Performance-based assessment of Existing Road Bridges

18th – 21st December, 2017
Hotel St. Hubertushof Zell am See
Zell am See, Salzburg, Austria

ACTION CONTACTS

Chair of the Action
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School Co-Organizer
Local organizers

Action websites
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CONTENTS

| | | |
|--------|--------------------------------------|----|
| 1. | Winter School – Zell am See | 4 |
| 1.1. | Objectives..... | 4 |
| 1.2. | Scope | 4 |
| 1.3. | Programme..... | 5 |
| 1.4. | Location, Dates and Travelling | 6 |
| 1.4.1. | Location and Date | 6 |
| 1.4.2. | How to get to Zell am See | 7 |
| 1.5. | Accommodation..... | 8 |
| 1.6. | Committees | 8 |
| 1.6.1. | Scientific Committee | 8 |
| 1.6.2. | Organizing Committee | 8 |
| 1.6.3. | Secretariat..... | 8 |
| 1.6.4. | Local Organizers | 9 |
| 2. | How to Apply..... | 10 |
| 2.1. | Application..... | 10 |
| 2.2. | Funding and Reimbursement | 10 |

1. WINTER SCHOOL – ZELL AM SEE

1.1. OBJECTIVES

The objective of the COST TU1406 Winter School – Zell am See is to spread the latest knowledge and developments acquired by the action in the topic of performance-based assessment of existing road bridges. The school aims at teaching the most recent developments of COST Action TU1406 on performance indicators and performance goals, focusing on the findings of WG1, WG2 and WG3.

In the first year of COST Action TU1406 the main focus was on the screening process of existing European documents and establishing a database for PIs. The goal was to explore performance indicators of bridge structures, in the course of international research cooperation, which capture the mechanical and technical properties and its degradation behaviour, already partly covered by code specifications. Considerations also include: natural aging, quality of the material; service life design methods; sustainable indicators; environmental, economic and social based indicators, performance profiles. The findings of this process are incorporated in a PI-KPI database which will be available to the user for its practical use.

The second year focused on technical and non-technical bridge performance goals. The aim was to identify existing performance goals (where the term goal pertains to quantifiable requirement and/or threshold value) for the indicators previously indicated in WG1. The performance goals vary according to technical, environmental, economic and social factors. These goals are already in a report which is now the basis for the objective performance assessment.

The third year of COST TU1406 is focused on establishing a quality control (QC) plan for different types of bridges. The goal is to create a procedure, based on heuristic rules and on WG1 and WG2 findings, which will allow bridge owners to define a QC plan for each individual bridge.

The objective of the Winter School is to spread the latest knowledge and developments acquired by the action in the topic of performance-based assessment of existing road bridges, and has the aim to teach the most recent developments of COST Action TU1406 on performance indicators, performance goals and quality control plans, focusing on the findings of WG1, WG2 and WG3. In this winter school participants will be familiarized with the developed tools and database. The application of the tools to defined bridge structures will be worked out in form of an interactive workshop. Participants will be able to use the tools in their daily practice after attending this training school.

1.2. SCOPE

The event is co-organised with the University of Natural Resources and Life Sciences in Vienna. It will cover WG1, WG2 and WG3 topics of COST Action TU1406, which are "the assessment of road bridges through Key Performance Indicators (KPIs)", "the establishment of Performance Thresholds/Goals" and "recommendations for the establishment of QC plans".

Venue: Hotel St. Hubertushof Zell am See, Zell am See, Salzburg.

Room: to be assigned

Time: 18 – 21 December 2017

| Local Organizer | Co-Organizer |
|---|---|
| Prof. Alfred Strauss BOKU, Austria. | Prof. José C. Matos Minho University, School of Engineering, Civil Engineering Department, Guimarães, Portugal. |
| Dr. Helmut Wenzel VCE – Vienna Consulting Engineers ZT GmbH, Austria. | |

Organisers: COST Action TU1406 "Quality specifications for roadway bridges, standardization at a European level (BridgeSpec)" (http://www.cost.eu/COST_Actions/tud/TU1406)

University of Natural Resources and Life Sciences
 Gregor Mendel Strasse 33
 A-1180 Wien
 Austria

Trainers list of experts:

- Prof. José C. Matos, Civil Engineering Department, School of Engineering, University of Minho (UMinho), Portugal.
- Prof. Alfred Strauss, University of Natural Resources and Life Sciences (BOKU), Institute of Structural Engineering, Austria.
- Prof. Irina Stipanovic, University of Twente (UTwente), Faculty of Engineering Technology Construction Management and Engineering Department, The Netherlands.
- Prof. Rade Hajdin, Faculty of Civil Engineering, University of Belgrade, Serbia.
- Dr. Helmut Wenzel, VCE – Vienna Consulting EngineersZT GmbH, Vienna, Austria.

1.3. PROGRAMME

Monday, 18 December 2017

| When | What |
|---------------|-------------------------------------|
| 09:00 – 10:00 | Transfer from Vienna to Zell am See |

Tuesday, 19 December 2017

| When | What |
|---------------|--------------------------------------|
| 09:00 – 10:00 | Opening |
| 10:00 – 10:15 | Coffee-break |
| 10:15 – 12:00 | Lecture |
| 12:00 – 13:00 | Lunch |
| 13:00 – 15:00 | Interactive Workshops and World Cafe |
| 15:00 – 15:15 | Coffee-break |
| 15:15 – 16:00 | Example cases and reflection |

Wednesday, 20 December 2017

| When | What |
|---------------|--------------|
| 09:00 – 10:00 | Lecture |
| 10:00 – 10:15 | Coffee-break |
| 10:15 – 12:00 | Lecture |

| | |
|---------------|--------------------------------------|
| 12:00 – 13:00 | Lunch |
| 13:00 – 15:00 | Interactive Workshops and World Cafe |
| 15:00 – 15:15 | Coffee-break |
| 15:15 – 16:00 | Example cases and reflection |

Thursday, 21 December 2017

| When | What |
|---------------|--------------------------------------|
| 09:00 – 10:00 | Lecture |
| 10:00 – 10:15 | Coffee-break |
| 10:15 – 12:00 | Lecture |
| 12:00 – 13:00 | Lunch |
| 13:00 – 15:00 | Interactive Workshops and World Cafe |
| 15:00 – 15:15 | Coffee-break |
| 15:15 – 16:00 | Example cases and reflection |
| 18:30 – | Social event |

Friday, 22 December 2017

| When | What |
|---------------|-------------------------------------|
| 10:00 – 11:00 | Transfer from Zell am See to Vienna |

1.4. LOCATION, DATES AND TRAVELLING

1.4.1. LOCATION AND DATE

The training school is hosted by Hotel St. Hubertushof Zell am See, Salzburg, Austria and it will be held between the 18th and 21st December 2017. The venue is located in a superb location by the edge of the woods, just a few minutes' walk away from Lake Zell.

Characterised by Lake Zell, the region is picturesquely nestled between the Grasberg Mountains in Kitzbühl in the west, the Central Alps in the south and the Limestone Alps in the north.

Zell am See is a region where are available three top ski resorts with a total of 138 kilometres of slopes: Kitzsteinhorn, Schmittenhöhe and Maiskogel. The region also offers a lot of fun, variety and a large number of alternative sports off-piste. Without a lift or a cable car you can also experience nature in all its variety while winter and snowshoe hiking, tobogganing, curling, cross-country skiing, ice skating and on skiing trips. In order to set out for the most beautiful places, walkers, Nordic walkers and sun worshippers meet on the many winter hiking trails which, amongst other places, pass by the lake promenade.

Hotel St. Hubertushof Zell am See
Seeuferstrasse 7
A-5700 Zell am See
Tel.: +43 (0)6542 767
Fax: +43 (0)6542 767-71
E-Mail: hubertushof@zellamsee.co

Zell am See has been in existence for centuries. Only a market in the 19th century, the town was originally called "Zelle im Pinzgau", probably because it spreads along the shores of Lake Zell and is the indisputable centre of the entire region; today, especially in terms of tourism. The triumph of tourism in Zell am See was marked by the building of the railway through Zell am See in 1875. This transport connection opened an important link between the town and the region, widely known as a gem of relaxation between mountain and lake. The town has been bearing the name "Zell am See" since 1810 and is home to approx. 9.900 habitants today. Many more "temporary" habitants are accommodated by the town during the touristic seasons in summer and in winter. For a long time, winter sport and especially ski holidays were the main reasons for travelling to Zell am See. The clear air and in particular the crystal-clear water of Lake Zell and the quality of the drinking water made the town at Lake Zell more and more popular with summer holiday makers.

More information: <https://www.zellamsee-kaprun.com/en>

1.4.2.HOW TO GET TO ZELL AM SEE

The venue of our Winter School is in the middle of the Alps. Major airports are only available at some distance. The closest airport is Salzburg, which has limited international connections.

There are the following options for travel:

1. By Plane

The closest airport is Salzburg (75 km), then Innsbruck (150 km) and Munich (250 km). All airports offer public transportation (rail and bus) as well as rent a car facility.

2. By Rail

Zell am See has a main railway station. It can be reached from Salzburg (1.5 hours), from Innsbruck (2.5 hours) and Munich (4 hours). Please have a look at the following web sites for your rail connection.
<http://fahrplan.oebb.at/bin/query.exe/en?>

3. By Bus

There is a direct bus service from Salzburg Airport to Zell/See (travel time 2 hours). (Bus 260).
http://www.postbus.at/de/Flughafenbus/Flughafenbus_Salzburg/index.jsp
<http://www.postbus.at/en/index.jsp>

4. By Car

Zell/See is well connected and situated in an attractive area for excursions. To rent a car or to drive on your own might be interesting. The distance to Salzburg is 75 km (1 hour 15 minutes), to Innsbruck 150 km (2 hours) and to Munich 250 km (3 hours).

5. By Taxi

The taxi charge from the Salzburg airport to Zell/See is approximately 130 € per car. In case of several persons travelling in 1 taxi this might be an option. We are also able to send a taxi or a minibus to the airport where the price reduces with the number of travellers. Driving time is 1 hour 15 minutes.

6. Local Travel

The venue is situated on the other side of the lake. To reach it from the town of Zell/See there is a bus shuttle (6 – 19 h) around the lake. Please exit at Thumersbach Centre where the venue is placed.

1.5. ACCOMMODATION

Local organizers suggest using the hotel where the training school will be lectured.

Hotel St. Hubertushof Zell am See
 Seeuferstrasse 7
 A-5700 Zell am See
 Tel.: +43 (0)6542 767
 Fax: +43 (0)6542 767-71
 E-Mail: hubertushof@zellamsee.co
<https://www.hotel-zellamsee.info/en/>

In case that you have a plan and would like to get the best options please let us know. I am sure we will be able to help.

1.6. COMMITTEES

An executive scientific committee as well an organizing committee were defined.

1.6.1. SCIENTIFIC COMMITTEE

| <i>Name</i> | <i>TU1406 Position</i> | <i>E-mail</i> |
|------------------|------------------------|--|
| José C. Matos | Chair | chair@tu1406.eu |
| Alfred Strauss | WG1 Leader | wg1@tu1406.eu |
| Irina Stipanovic | WG2 Leader | wg2@tu1406.eu |
| Rade Hajdin | WG3 Leader | wg3@tu1406.eu |
| Helmut Wenzel | MC member | wenzel@vce.at |

1.6.2. ORGANIZING COMMITTEE

| <i>Name</i> | <i>TU1406 Position</i> | <i>E-mail</i> |
|------------------|------------------------|--|
| José C. Matos | Chair | chair@tu1406.eu |
| Alfred Strauss | WG1 Leader | wg1@tu1406.eu |
| Irina Stipanovic | WG2 Leader | wg2@tu1406.eu |
| Helmut Wenzel | MC member | wenzel@vce.at |

1.6.3. SECRETARIAT

| <i>Name</i> | <i>TU1406 Position</i> | <i>E-mail</i> |
|--------------|----------------------------|--|
| Eleni Chatzi | Technical Secretariat | tecsec@tu1406.eu |
| Lara Leite | Administrative Secretariat | adminsec@tu1406.eu |

1.6.4. LOCAL ORGANIZERS

| <i>Name</i> | <i>TU1406 Position</i> | <i>E-mail</i> |
|----------------|------------------------|--|
| Alfred Strauss | WG1 Leader | wg1@tu1406.eu |
| Helmut Wenzel | MC member | wenzel@vce.at |

2. HOW TO APPLY

2.1. APPLICATION

Interested applicants should submit their personal information and a short Curriculum Vitae through the form available for this purpose and available at <https://goo.gl/aq7cjj>.

Registrations should be submitted until the 15th October 2017.

Communication of Acceptance will be sent by the 22nd October 2017.

2.2. FUNDING AND REIMBURSEMENT

COST supports the participation of Trainees for their attendance at approved Training Schools. 15 Trainees approved by Organization/Management Committee, based on technical curriculum and on the COST policies on ESR (early stage researcher), gender and inclusiveness country, are entitled to receive a fixed Grant of 650,00 € and free registration.

Trainee grants do not necessarily cover all expenses related to attending the Training School. The Trainee Grant is a contribution to the overall travel, accommodation and meal expenses of the Grantee. Different grants amount can be attributed to each trainee.

The grant will be paid up to one month after the training school and no proof of expenses will be required to make the payment. The only requirement is to sign the attendance list.



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WWW.TU1406.EU